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guished members to take part in it. The distant seats of learning in the younger British countries have responded with not less cordiality; seven in Canada, seven in Australia, five in New Zealand and the same number in South Africa have appointed delegates; India and Ceylon are represented by eight. Within the United Kingdom 68 universities and societies are lending their support; and, in addition to the appointed delegates, there are some 200 invited guests, who include men eminent in every walk of life.

A share in evoking this extraordinary manifestation of world-wide respect belongs, of course, to the prestige of Cambridge University, which is acting as host; but Cambridge could not have planned a festival on this scale or sent out the invitations in honor of a lesser man. Other great men were born in the famous year 1809, and one at least was at Cambridge; but it is impossible to conceive a pious pilgrimage of this sort to celebrate their birth. It helps us to realize the immense space on the intellectual horizon of the world filled by the figure of the great observer and generalizer. His achievement has, in a sense, become so familiar, its indirect influence has so closely interpenetrated the general consciousness of mankind that we can hardly see it plain or measure its proportions. It is not a matter for the learned only, but for all of us. To no other man has it been given to effect a revolution in human thought so large, so pervading, so sudden, and yet so enduring. Darwin taught mankind to see all things in a new light, not only the operations of nature, great and small, the mysteries of existence and the innumerable objects of research, but the common things of every-day life.

#### SCIENTIFIC NOTES AND NEWS

YALE UNIVERSITY has given its doctorate of science to Dr. E. W. Morley, emeritus professor of chemistry at Western Reserve University; to Dr. Wm. T. Sedgwick, professor of biology at the Massachusetts Institute of Technology, a graduate of the Sheffield Scientific School, and to Dr. E. H. Moore, professor of mathematics of the University of

Chicago, a graduate in arts and philosophy at Yale University.

DR. S. F. EMMONS, of the U. S. Geological Survey, has received the doctorate of science from Harvard University.

WASHINGTON AND JEFFERSON COLLEGE has conferred the degree of doctor of science on Dr. C. H. Townsend, of the New York Aquarium.

THE delegates to the Darwin commemoration on whom the degree of doctor of science was conferred by the University of Cambridge are: Édouard van Beneden, professor of zoology at Liège; Prince Roland Bonaparte, Paris; Geheimrat Bütschli, professor of zoology and paleontology at Heidelberg; Robert Chodat, professor of botany at Geneva; Francis Darwin, F.R.S., honorary fellow of Christ's College, and formerly reader in botany; Karl F. Goebel, professor of botany at Munich; Ludwig von Graff, professor of zoology and comparative anatomy at the University of Graz and president-elect of the International Zoological Congress which meets at Graz next year; Richard Hertwig, professor of zoology and comparative anatomy at Munich; Harold Höfding, professor of philosophy at Copenhagen; Jacques Loeb, professor of physiology in the University of California; Edmond Perrier, director of the Natural History Museum of Paris; Gustav Albert Schwalbe, professor of anatomy at Strassburg; Hermann Graf zu Solms-Laubach, professor of botany at Strassburg; Clement Timiriazeff, professor of botany in Moscow; Frantisek Vejdovsky, professor of zoology in the Bohemian University of Prague; Max Verworn, professor of physiology at Göttingen; Hermann Vöchting, professor of botany at Tübingen; Hugo de Vries, professor of botany at Amsterdam; Charles D. Walcott, secretary of the Smithsonian Institution at Washington; E. B. Wilson, professor of zoology in Columbia University, New York; and Charles René Zeiller, professor of paleobotany in the École des Mines, Paris.

At the commencement of Harvard University on June 30 the degrees of doctor of laws

and doctor of medicine were conferred on Dr. Charles W. Eliot, who has been made by the corporation president emeritus of the university. In conferring these degrees President Lowell said: "Charles William Eliot, teacher, administrator, orator, prophet; forty years the leader and the guide of Harvard, and in the single-minded elevation of his character a model to her sons; the father of the present American university, the brother of all teachers and the friend of every lover of his country: It has not been our custom to confer the degree of doctor of medicine, *honoris causa*; but an exception is fitting in the case of one who, in the opinion of professors of medicine, has accomplished more for the progress of medical education in this country than any other living man, Charles William Eliot. Not in its buildings alone, but also in the instruction and research within its walls, he found our medical school brick and left it marble."

THE Royal Society of Arts has awarded its Albert medal to Sir Andrew Noble, K.C.B., F.R.S., "in recognition of his long-continued and valuable researches into the nature and action of explosives, which have resulted in the great development and improvement of modern ordnance."

M. J. VALLOT has been elected by the Société des Observatoires du Mont Blanc director of the observatory founded by the late M. Janssen. He is now director of two observatories on Mont Blanc.

MR. A. F. CRIDER has resigned the directorship of the State Geological Survey of Mississippi and Dr. E. H. Lowe, formerly professor of geology in the University of Mississippi, has been elected to the position.

DR. JOHN H. MUSSER, professor of clinical medicine at the University of Pennsylvania, is chairman of the American delegation to the International Medical Congress, which will be held this year in Budapest.

UNDER the direction of Professor Charles Lane Poor, of Columbia University, an expedition has been fitted out to measure the tidal currents of Point Judith and Block Is-

land. Professor Poor will supervise the work from his yacht "Weetamoe"—the station boat being the auxiliary power boat "Gracie." The observations will be made by Messrs. Brainin and Ladd.

EDWIN F. STIMPSON, assistant professor of physics, University of Kansas, has obtained leave of absence for one year to accept a position as inspector of weights and measures in the Bureau of Standards. At the last session of Congress, an appropriation of ten thousand dollars was made for an investigation in regard to the efficiency of the inspection service in the different states, to ascertain to what extent fraud is practised in interstate commerce. The bureau proposes to send inspectors to the different states to advise with the local authorities and to assist them in procuring the proper equipment and in adopting uniform regulations. The appropriation is only for one year and every effort will be made to cover the country, and to be in position to render a final report to congress by next June.

MR. J. W. JENKINSON, demonstrator at the Natural History Museum, Oxford, has been elected a fellow of Exeter College.

PROFESSOR CHARLES L. EDWARDS, of Trinity College, expects to spend the next fifteen months in Europe. During the present summer he will work in one or more of the Scandinavian marine biological stations, from October to March with Professor Boveri at Würzburg and then in the spring at Naples. In the summer of 1910 he expects to attend the Eighth International Zoological Congress at Gratz.

THE Danish government has sent an expedition under Captain Elmar Mikkelsen to Greenland to search for the bodies of Mylius Erichsen and the other explorers who perished in November, 1907.

It is said that Professor Hergesell will have charge of a dirigible airship under the general direction of Count Zeppelin, which will next year undertake explorations in the polar regions and if it proves feasible will undertake to reach the North Pole.

DURING the recent commencement week of the Ohio State University two memorials were presented by the alumni. An oil portrait of James Hulme Canfield, fourth president of Ohio State University and later librarian of Columbia University. This was painted by Mr. George Bellows, of New York City, an Ohio state man. The second memorial was a large bronze tablet for Townshend Hall, one of the agricultural buildings of the university. This tablet contains a life-size medallion portrait of Dr. Townshend and the following inscription:

TO THE MEMORY OF  
NORTON STRANGE TOWNSHEND  
1815-1895  
BELOVED PHYSICIAN, FRIEND OF THE  
CAUSE OF HUMAN FREEDOM, WISE LAWMAKER,  
A PIONEER IN AGRICULTURAL EDUCATION,  
ONE OF THE FOUNDERS OF THIS UNIVERSITY  
AND ITS FIRST PROFESSOR OF AGRICULTURE  
THE STUDENTS OF AGRICULTURE  
AND OF VETERINARY MEDICINE  
HAVE PLACED THIS TABLET  
A.D. 1909

WE regret to announce the death, June 20, at Copenhagen, Denmark, of the distinguished naturalist and physician, Dr. Rudolph Bergh, well known among zoologists for his work on the nudibranchiate mollusks.

THE U. S. Civil Service Commission announces an examination on July 14, to fill a vacancy in the position of editor, in the bureau of education, Department of the Interior, at a salary of \$2,000 per annum. The duties of the position will be performed chiefly at Washington, and will include correspondence, report writing, editing and the preparation of original articles concerning the various phases of education. There will also be occasional work outside of Washington studying educational institutions and problems, attending conferences, and giving addresses at important public meetings. It is desired to secure in the appointee selected one having a broad general education who has also specialized in the study of education and has a wide knowledge of educational literature, including current publications, so that he will be able to give advice and to furnish information concerning

matters which may be of interest to the educational public at any given time. It is not essential that he should be skilled in the preparation of copy or in the reading of proof. Men only will be admitted to this examination.

HARVARD UNIVERSITY has received an anonymous gift of \$5,000 to establish a fund, the annual income of which is to be used for the support of a summer field course in structural or stratigraphical geology, conducted preferably in the mountain region of western North America, for the benefit of students who have an elementary knowledge of the subject.

MR. F. G. SMART has given the University of Cambridge £600 to establish two prizes to be awarded each year in botany and in zoology.

A RESEARCH studentship in actinotherapeutics, of the annual value of £300, to be known as the Douglas research studentship, has been established at Guy's hospital, London.

MR. FRANK SPRINGER has presented to the museum of the University of Colorado a collection of more than fifty species of fossil Crinoids and Blastoids.

THE Rhode Island legislature at the last session appropriated \$2,500 annually for three years for a survey of the natural resources of the state. The work was placed under the general charge of the Bureau of Industrial Statistics, Colonel George H. Webb, commissioner, who has appointed Professor Charles W. Brown, head of the department of geology at Brown University, to take immediate direction of the survey. Mr. Nelson C. Dale, A.M., and I. R. Sheldon, '10, have been appointed field assistants.

THE Illinois State Laboratory of Natural History has recommenced biological work on the Illinois River and dependent waters at Havana (Illinois), in continuation of the work interrupted in 1899. The plan of operations involves an ecological and economic study of the entire river system, to include both the plant and animal contents of the waters, and their relations to the environment in general and detail. The work is in charge of Dr. S. A. Forbes, director of the laboratory, with Mr. R. E. Richardson as resident assis-

tant at Havana. A committee on an ecological survey appointed by the Illinois Academy of Science, of which Dr. Forbes is chairman, is associated with this work in an advisory capacity, and the members of the committee will share in its investigations. The station is equipped with a floating laboratory, a gasoline launch and the various apparatus necessary for aquatic collection and investigation. It is the intention of the management to open the station to biological and ecological investigators during the summer of 1910.

THE third meeting of the permanent commission of the International Seismological Association will take place August 30 to September 4, at Zermatt, Switzerland.

THROUGH the kindness of Professor Lambrecht and Dr. Davies, of the University of Leipzig, arrangements have been made for a special room for Americans who visit the celebration at the 500th anniversary of the founding of Leipzig University. This room is at the Goldner Bär, Universität Strasse 11. Americans should register at this place and they will here be given any information that they need for the celebration.

#### UNIVERSITY AND EDUCATIONAL NEWS

AMONG gifts to Yale University announced at the recent commencement were \$100,000 to establish a John Sloane memorial fund for the increase of salaries and two gifts of \$20,000 each towards the establishment of a professorship of education. It is further announced that a compromise has been effected in the case of the will of Frederick C. Hewitt, by which the university will receive \$400,000.

THE Drapers' Company have renewed their grant of £2,000 (£400 a year for five years) to the department of applied mathematics in London University under Professor Karl Pearson, thus enabling the research work in statistics and in the biometric laboratory to be continued and extended. The Mercers' Company have made a grant of £500 to the department of physiology.

THE new Institute of Physiology at University College, London, was opened on June 17 by Mr. Haldane, the secretary of state for war.

DR. HENRY B. WARD, of the University of Nebraska, has accepted a professorship of zoology in the University of Illinois.

DR. RAYMOND H. STETSON, of Beloit College, has been appointed professor of psychology at Oberlin College.

DR. FRANK N. FREEMAN, who for the past year has held the traveling fellowship in philosophy and psychology from Yale University, has been appointed instructor in educational psychology in the University of Chicago.

MR. CLINTON R. STAUFFER, A.M. (Ohio State) has been appointed instructor in geology in Western Reserve University.

PROFESSOR CHARLES E. DECKER, now in the graduate school of the University of Chicago, has been appointed instructor in biology and geology at Allegheny College for the coming year.

APPOINTMENTS and promotions in the St. Louis University School of Medicine are announced as follows: Dr. M. F. Engman has been made professor of dermatology in place of Dr. John H. Duncan, resigned. Drs. J. W. Marchildon, J. J. Honwink and R. D. Carman have been advanced from instructors to assistant professors of bacteriology, dermatology and "roentgenology," respectively.

#### DISCUSSION AND CORRESPONDENCE

##### "THE DAYLIGHT SAVING BILL"

TO THE EDITOR OF SCIENCE: The reference to the bill in SCIENCE for June 18, 1909, page 973, in the interesting letter of "T. C. M." is not quite accurate. The bill was introduced in the Indiana legislature and provided that the ratio of the circumference to the diameter of the circle should be exactly three to one. It was referred to "The Committee on Swamp Lands." The introducer of the bill evidently had never heard of  $\pi$ , and if he had, would probably have considered it a symbol of traditional New England breakfast dish.

The published report of the hearings before the special committee of parliament on the "Daylight Saving Bill," from which the